Author Index, Volume 159

Adams AL, 380
Adkins ES, 237
Alexander J, 320
Alexander JP, 493
Andrews DA, 507
Archer SG, 325
Arent L, 265
Arfvidsson B, 556
Arredondo MA, 569
Ascher NL, 493
Asher E, 599
Attwood SEA, 112
Aufses AH Jr, 550

Baciewicz FA Jr, 265
Baer H, 386
Baird RM, 479
Baker PR, 153
Banchero N, 231
Banis JC, 308
Barlow AP, 144
Barrientos H, 582
Bass RA, 172
Belamarich P, 204
Bell RM, 344
Benner KG, 493
Berci G, 273
Berdon WE, 204
Berg RD, 79, 394
Bergamini T, 230
Bhagavan BS, 258
Blatchford GJ, 112
Blumgart LH, 386
Booth FVM, 132
Bouwman DL, 600
Bowden TA Jr, 15
Boyd JB, 301
Braasch JW, 51
Bradley TM, 374
Brewer NS, 365
Bridges WM, 394
Broughan TA, 72
Burke DR, 282

Caldwell DM, 500
Callaghan J, 277
Cameron JL, 91, 137, 410
Camishion RC, 320
Campos AC, 345, 427
Caniano DA, 402
Cardenas S, 405
Carrico CJ, 500
Carson JA, 320
Caruso ML, 575
Cataldo PA, 561
Cavallini A, 575
Chan NH, 482
Chang S, 258
Chaudhuri B, 569
Chaudhuri PK, 569
Cheadle WG, 153
Christensen MA, 112
Clay MG, 470
Cochran AJ, 564
Coe NPW, 615
Cohen Z, 161
Coleman J, 91, 137
Coon WW, 585
Copass M, 500
Copeland EM III, 27
Coppa GF, 125
Craig M, 161
Crist KA, 569
Cullen J, 161
Cuschieri A, 153
Cuschieri A, 273

Dahl J, 486
Davis JW, 365
Daya MR, 493
Dean P, 118
Deitch EA, 79, 394
Delgado S, 582
DeMeester TR, 144
Dempsey DT, 282
Dennis D, 450
Deveney CW, 510
Deveney KE, 493
Didolkar MS, 202
Dillon PW, 204
Dimitrov E, 389
Doerr RJ, 132
Dolson DJ, 27
Dooner J, 525
Drott C, 556
Dunnington G, 423
Duvivier R, 370

Eddy AC, 500
Edlund G, 414
Edwards JM, 527
Elliott DW, 291, 361, 416
Eypasch EP, 144

Fasy T, 199
Fazio VW, 540
Field RJ Jr, 281
Fink AS, 564
Fischer JE, 295, 544
Fishman E, 137
Flavin-Warshaw B, 59
Flint LM Jr, 132
Fonkalsrud EW, 237
Fox TA Jr, 106
Freeman J, 301
Freinkel Z, 309
Friedman P, 615
Fritsch M, 389
Fulginiti J, 423
Fumagalli U, 330

Gajdusek C, 473
Galanduk S, 540
Galloway JR, 41
Gamal R, 589
Garb JL, 615
Garrison RN, 380
Gaspar MR, 252
Geceiter G, 309
Ger R, 370
Gerding DN, 212
Gerding H, 309
Gertsch P, 386
Gilliland TM, 489
Giorgio P, 575
Glasscock ME III, 389
Goff JS, 21
Goldberg SM, 178
Goldman MA, 500
Goodall RG, 241
Goodnough LT, 602
Gorham K, 339
Gray BN, 325
Greenberg RA, 195
Greenstein AJ, 550
Griffen WO Jr, 189
Grochow LB, 137
Guerra V, 575
Guliane P, 301
Guzauskas A, 256

Haas PA, 106
Haglund UH, 546
Hammond J, 339
Hammond WG, 345, 427
Hamre D, 454
Harms BA, 34
Harris EJ Jr, 466, 527
Harris PF, 389
Hasselgren P-O, 295
Hatch EI, 507
Hautamaki RD, 27
Hedges J, 457
Heimann TM, 199
Heiss FW, 51
Hemstreet GP, 172
Henderson JM, 41
Hermann RE, 2, 72
Herrington JL Jr, 549
Hertzler G, 41
Hiatt JR, 564
Hines MH, 597
Hislop G, 479
Holley DT, 27
Hollingsworth-Fridlund P, 365
Hooks VH III, 15
Hosie RT, 448
Howard TJ, 258
Hoyt DB, 365
Hruza D, 21
Hummel RP III, 295
Hunter JM, 504
Hurst RE, 172

Inahara T, 522
Irurzun A, 226

Jackson CG, 389
Jackson CGR, 231
James JH, 295
Jansson RL, 546
Järvinen H, 593
Johansson K-E, 144
Johnson BH, 222
Johnson GD, 389
Johnson S, 212
Jordan GL Jr, 294
Joshi S, 118

Kaibara N, 218
Kaminski DL, 118
Kar R, 569
Kaufman SL, 91, 137
Kawasaki S, 41
Keeffe EB, 493
Kelly TR, 361
Kemalyan N, 450
Khalafi RS, 132
Kim PCW, 161
Kimura O, 218
Klimberg VS, 27
Knecht BH, 518
Koga S, 218
Kosakowski CA, 564
Kuechler P, 525
Kujari H, 593
Kurkchubasche AG, 493
Kurtz RJ, 199

Lake JR, 493
Lane MM, 172
Ledbetter DJ, 507
Lee JT Jr, 212
Lerut J, 386
Levy GA, 161
Levy JP, 204
Lewis RT, 241
Lincoln KJ, 615
Lindhagen JGE, 546
Ljungdahl M, 414
Lloyd-Smith W, 241
Lopez R, 450
Lorusso D, 575
Lowe D, 457
Lowndes RH, 314
Luchette FA, 132
Luna-Perez P, 582
Lundell LR, 546
Lundgren F, 556
Lundholm K, 556
Lysz TW, 85

Ma JW, 394
Ma L, 79, 394
MacFarlane JK, 482
Machiedo GW, 85
Maciocco M, 330
Mackersie RC, 365
Maguire JP, 291
Makino M, 218
Malangoni MA, 167
Mangini V, 575
Manktelow R, 301
Marcucci JC, 287
Marien B, 241
Martinelli G, 199
Mauro M, 67
McConnell DB, 466
McCoy S, 320
McDonald P, 540
McGowan PF, 172
McLean GK, 282
McSherry CK, 273
McSwain NE Jr, 377
Mecklin J-P, 593
Medeiros AdC, 411
Meguid MM, 345, 427
Mercadier M, 250
Meredith JW, 597
Merlini MP, 417
Messa C, 575
Mester J, 199
Miller F, 199
Millikan WJ Jr, 41
Mills JL, 527
Misciagna G, 575
Mishrick A, 370
Moe R, 473
Moneta GL, 466
Monroe K, 370
Montorsi M, 330
Moore TC, 589
Morales A, 582
Mori K, 246
Moseley HS, 450
Moss RL, 514
Mozell E, 454
Mukherjee D, 486
Muñoz R, 405
Munson JL, 510
Murray CK, 172

Nakayama DK, 341
Nance DR, 500
Neff CC, 99
Ness J, 473
Newman H, 208
Nishidoi H, 218
Noguchi M, 246
Norcross E, 320
Norton RL, 493

Ohta M, 218
Ojeda E, 226
Olbe LC, 546
Olson MM, 212
O'Neill M, 540
Order S, 137
Ovaska J, 593
Ozawa K, 246

Author Index, Volume 159

Adams AL, 380
Adkins ES, 237
Alexander J, 320
Alexander JP, 493
Andrews DA, 507
Archer SG, 325
Arent L, 265
Arfvidsson B, 556
Arredondo MA, 569
Ascher NL, 493
Asher E, 599
Attwood SEA, 112
Aufses AH Jr, 550

Baciewicz FA Jr, 265
Baer H, 386
Baird RM, 479
Baker PR, 153
Banchero N, 231
Banis JC, 308
Barlow AP, 144
Barrientos H, 582
Bass RA, 172
Belamarich P, 204
Bell RM, 344
Benner KG, 493
Berci G, 273
Berdon WE, 204
Berg RD, 79, 394
Bergamini T, 230
Bhagavan BS, 258
Blatchford GJ, 112
Blumgart LH, 386
Booth FVM, 132
Bouwman DL, 600
Bowden TA Jr, 15
Boyd JB, 301
Braasch JW, 51
Bradley TM, 374
Brewer NS, 365
Bridges WM, 394
Broughan TA, 72
Burke DR, 282

Caldwell DM, 500
Callaghan J, 277
Cameron JL, 91, 137, 410
Camishion RC, 320
Campos AC, 345, 427
Caniano DA, 402
Cardenas S, 405
Carrico CJ, 500
Carson JA, 320
Caruso ML, 575
Cataldo PA, 561
Cavallini A, 575
Chan NH, 482
Chang S, 258
Chaudhuri B, 569
Chaudhuri PK, 569
Cheadle WG, 153
Christensen MA, 112
Clay MG, 470
Cochran AJ, 564
Coe NPW, 615
Cohen Z, 161
Coleman J, 91, 137
Coon WW, 585
Copass M, 500
Copeland EM III, 27
Coppa GF, 125
Craig M, 161
Crist KA, 569
Cullen J, 161
Cuschieri A, 153
Cuschieri A, 273

Dahl J, 486
Davis JW, 365
Daya MR, 493
Dean P, 118
Deitch EA, 79, 394
Delgado S, 582
DeMeester TR, 144
Dempsey DT, 282
Dennis D, 450
Deveney CW, 510
Deveney KE, 493
Didolkar MS, 202
Dillon PW, 204
Dimitrov E, 389
Doerr RJ, 132
Dolson DJ, 27
Dooner J, 525
Drott C, 556
Dunnington G, 423
Duvivier R, 370

Eddy AC, 500
Edlund G, 414
Edwards JM, 527
Elliott DW, 291, 361, 416
Eypasch EP, 144

Fasy T, 199
Fazio VW, 540
Field RJ Jr, 281
Fink AS, 564
Fischer JE, 295, 544
Fishman E, 137
Flavin-Warshaw B, 59
Flint LM Jr, 132
Fonkalsrud EW, 237
Fox TA Jr, 106
Freeman J, 301
Freinkel Z, 309
Friedman P, 615
Fritsch M, 389
Fulginiti J, 423
Fumagalli U, 330

Gajdusek C, 473
Galanduk S, 540
Galloway JR, 41
Gamal R, 589
Garb JL, 615
Garrison RN, 380
Gaspar MR, 252
Geceiter G, 309
Ger R, 370
Gerding DN, 212
Gerding H, 309
Gertsch P, 386
Gilliland TM, 489
Giorgio P, 575
Glasscock ME III, 389
Goff JS, 21
Goldberg SM, 178
Goldman MA, 500
Goodall RG, 241
Goodnough LT, 602
Gorham K, 339
Gray BN, 325
Greenberg RA, 195
Greenstein AJ, 550
Griffen WO Jr, 189
Grochow LB, 137
Guerra V, 575
Guliane P, 301
Guzauskas A, 256

Haas PA, 106
Haglund UH, 546
Hammond J, 339
Hammond WG, 345, 427
Hamre D, 454
Harms BA, 34
Harris EJ Jr, 466, 527
Harris PF, 389
Hasselgren P-O, 295
Hatch EI, 507
Hautamaki RD, 27
Hedges J, 457
Heimann TM, 199
Heiss FW, 51
Hemstreet GP, 172
Henderson JM, 41
Hermann RE, 2, 72
Herrington JL Jr, 549
Hertzler G, 41
Hiatt JR, 564
Hines MH, 597
Hislop G, 479
Holley DT, 27
Hollingsworth-Fridlund P, 365
Hooks VH III, 15
Hosie RT, 448
Howard TJ, 258
Hoyt DB, 365
Hruza D, 21
Hummel RP III, 295
Hunter JM, 504
Hurst RE, 172

Inahara T, 522
Irurzun A, 226

Jackson CG, 389
Jackson CGR, 231
James JH, 295
Jansson RL, 546
Järvinen H, 593
Johansson K-E, 144
Johnson BH, 222
Johnson GD, 389
Johnson S, 212
Jordan GL Jr, 294
Joshi S, 118

Kaibara N, 218
Kaminski DL, 118
Kar R, 569
Kaufman SL, 91, 137
Kawasaki S, 41
Keeffe EB, 493
Kelly TR, 361
Kemalyan N, 450
Khalafi RS, 132
Kim PCW, 161
Kimura O, 218
Klimberg VS, 27
Knecht BH, 518
Koga S, 218
Kosakowski CA, 564
Kuechler P, 525
Kujari H, 593
Kurkchubasche AG, 493
Kurtz RJ, 199

Lake JR, 493
Lane MM, 172
Ledbetter DJ, 507
Lee JT Jr, 212
Lerut J, 386
Levy GA, 161
Levy JP, 204
Lewis RT, 241
Lincoln KJ, 615
Lindhagen JGE, 546
Ljungdahl M, 414
Lloyd-Smith W, 241
Lopez R, 450
Lorusso D, 575
Lowe D, 457
Lowndes RH, 314
Luchette FA, 132
Luna-Perez P, 582
Lundell LR, 546
Lundgren F, 556
Lundholm K, 556
Lysz TW, 85

Ma JW, 394
Ma L, 79, 394
MacFarlane JK, 482
Machiedo GW, 85
Maciocco M, 330
Mackersie RC, 365
Maguire JP, 291
Makino M, 218
Malangoni MA, 167
Mangini V, 575
Manktelow R, 301
Marcucci JC, 287
Marien B, 241
Martinelli G, 199
Mauro M, 67
McConnell DB, 466
McCoy S, 320
McDonald P, 540
McGowan PF, 172
McLean GK, 282
McSherry CK, 273
McSwain NE Jr, 377
Mecklin J-P, 593
Medeiros AdC, 411
Meguid MM, 345, 427
Mercadier M, 250
Meredith JW, 597
Merlini MP, 417
Messa C, 575
Mester J, 199
Miller F, 199
Millikan WJ Jr, 41
Mills JL, 527
Misciagna G, 575
Mishrick A, 370
Moe R, 473
Moneta GL, 466
Monroe K, 370
Montorsi M, 330
Moore TC, 589
Morales A, 582
Mori K, 246
Moseley HS, 450
Moss RL, 514
Mozell E, 454
Mukherjee D, 486
Muñoz R, 405
Munson JL, 510
Murray CK, 172

Nakayama DK, 341
Nance DR, 500
Neff CC, 99
Ness J, 473
Newman H, 208
Nishidoi H, 218
Noguchi M, 246
Norcross E, 320
Norton RL, 493

Ohta M, 218
Ojeda E, 226
Olbe LC, 546
Olson MM, 212
O'Neill M, 540
Order S, 137
Ovaska J, 593
Ozawa K, 246

Pahl AC, 34
Park M, 241
Passaro E Jr, 258, 610
Pearce WH, 231
Pedersen P, 295
Pello M, 320
Peoples JB, 291
Perry RE, 112
Pertilä I, 593
Peterson LR, 212
Petros JG, 374
Pezim ME, 504
Pezzuoli G, 330
Pinson CW, 493, 510
Pitt HA, 91, 137
Pittman RD, 522
Poccobelli M, 330
Poe DS, 389
Pope R, 457
Popovich J, 320
Porter JM, 466, 527
Poses R, 320
Postier RG, 172
Potts JR III, 72
Prinz RA, 336
Proctor HJ, 67
Puccio E, 99

Qualman SJ, 402

Ragsdale JW, 493
Rappaport W, 256, 579
Rebuffat C, 330
Redan JA, 85
Reder B, 222
Reed WP, 561
Reguilon C, 226
Reilly RS, 282
Reisner L, 423
Reveille RM, 21
Rey JM, 226
Reyes C, 204
Richardson JD, 167
Rigor BM, 599
Robert JH, 550
Roberts JP, 493
Rodriguez C, 377
Rogers DA, 15
Romines RB, 380
Root HD, 363
Rosati R, 330
Rosato EF, 282
Rosen I, 301
Rosengart TK, 125
Rossi RL, 51
Rothenberger DA, 178
Rotstein L, 301
Roviaro G, 330
Rush BF Jr, 85
Ryan JA Jr, 514
Rypins EB, 222

Sachar DB, 550
Salloum RM, 27
Salman FT, 237
Samuels PB, 210
Sanders RJ, 231
Santamaria JL, 226
Sarfeh IJ, 222
Sawin RS, 507
Sawyers JL, 8
Schaller RT, 507
Schapiro RH, 59
Schein M, 309
Scherstén T, 556
Schneider GT, 144
Schon GR, 287
Schwartz RW, 189
Schwarz R, 482
Seco JL, 226
Serrano SR, 226
Shackford SR, 365
Shea JA, 51
Sheridan WG, 314
Shimoda K, 222
Shively EH, 274, 380
Shuck JM, 602
Shumate CR, 167
Silverman ML, 51
Simeone JF, 59
Siow Y, 153
Sittig K, 79
Sitzmann JV, 137
Smith S, 85
Snow N, 268
Soares CER, 411
Soeldner JS, 51
Souba WW, 27
Specian RD, 79, 394
Spence RK, 320
Spratt JS, 195
Stabile BE, 99, 258
Stahl RL, 41
Starling JR, 34
Steiber A, 341
Steiger E, 540
Stein HJ, 144
Stoddard PB, 561
Stolar CJH, 204
Sumi K, 218
Sun JH, 21
Svartholm EG, 546
Szporn A, 199

Tapper D, 473
Taylor LM Jr, 466, 527
Taylor TV, 385
Teitelbaum DH, 402
Thomas HA, 167
Thomas P, 386
Thomford NR, 265, 569
Thorson AG, 112
Toro CM, 287
Traverso LW, 489

Valente J, 579
vanSonnenberg E, 99
Van Stiegmann G, 21
Varas R, 339
Varoli F, 330
Verrier ED, 500
Vestrup JA, 462
Vetto RM, 450, 454
Vilk DR, 291
Vitale GC, 153

Wada Y, 246
Ward CG, 339
Warner BW, 295
Warren WD, 41
Warshaw AL, 59
Watkins E Jr, 51
Weaver DW, 600
Weaver M, 265
Webb GL, 377
Webb WR, 377
Wexner SD, 178
Whang I, 420
Wheeler B, 486
Wiegand FM, 241
Wieman TJ, 380
Wiencek RG, 600
Wilson JJ, 208
Winek T, 454
Witzke D, 423
Wong RS, 610
Wong WD, 178
Worth A, 479

Yancey JM, 533
Yeager RA, 466
Yeastings R, 265
Yonekawa M, 218
Young HL, 314
Yu W, 420

Zahn CA, 208
Zaima M, 246
Zerhouni E, 137
Zimmermann A, 386
Zinner MJ, 91, 258
Zompa E, 172
Zuker R, 301

Subject Index, Volume 159

Abdomen
Abdominal mycobacterial infections in immunocompromised patients; 125
Abdominal trauma and diagnostic peritoneal lavage revisited (E), 363
Clostridium difficile diarrhea and colonization after treatment with abdominal infection regimens containing clindamycin or metronidazole; 212
Eliminating homologous blood transfusions during abdominal aortic aneurysm repair; 522
Factors influencing the treatment of intra-abdominal abscesses; 167

Acid
Duodenogastric reflux of bile acids, gastrin and parietal cells, and gastric acid secretion before and 6 months after cholecystectomy; 575

Acquired immunodeficiency syndrome (AIDS)
Abdominal mycobacterial infections in immunocompromised patients; 125

Alimentation
A century of home parenteral nutrition for Crohn's disease; 540
Editorial comment (E), 544
Nutritional support in surgical practice: part I; 345
Nutritional support in surgical practice: part II; 427
Three-phase study of phlebitis in patients receiving peripheral intravenous hyperalimentation; 222
Triglyceride absorption in transperitoneal alimentation; 237

Anastomosis
Clinical application of a new compression anastomotic device for colorectal surgery; 330
End-to-end anastomosis by enclosure between a prosthesis and a vessel with a significant difference in diameter; 417

Angiography
Angiography in poor-risk patients with massive nonvariceal upper gastrointestinal bleeding; 282

Antibiotics
Clostridium difficile diarrhea and colonization after treatment with abdominal infection regimens containing clindamycin or metronidazole; 212
Combined topical and systemic antibiotic prophylaxis in acute appendicitis; 226
Editorial comment (E), 230

Anus
Combined chemotherapy and radiotherapy for carcinomas of the anus; 518
Factors influencing postoperative urinary retention in patients undergoing surgery for benign anorectal disease; 374
Manometric diagnosis of anal sphincter injuries; 112
The ileoanal reservoir; 178

Aorta
Eliminating homologous blood transfusions during abdominal aortic aneurysm repair; 522
Rapid diagnosis of thoracic aortic transection using intravenous digital

subtraction angiography; 500
APACHE II
APACHE II in emergency operations for perforated ulcers; 309
Appendix
Appendicitis in children aged 13 years and younger; 589
Combined topical and systemic antibiotic prophylaxis in acute appendicitis; 226
Editorial comment (E), 230
Periappendicitis is a significant clinical finding; 564
Arteries
Influence of coumarin treatment on patency and limb salvage after peripheral arterial reconstructive surgery; 556
Salvage after postoperative thrombosis of the carotid artery; 525
Surgical implications of the posterior gastric artery; 420
Surgical treatment of distal ulnar artery aneurysm; 527
Bacteria
Abdominal mycobacterial infections in immunocompromised patients; 125
Clostridium difficile diarrhea and colonization after treatment with abdominal infection regimens containing clindamycin or metronidazole; 212
Effect of chlorhexidine scrub on postoperative bacterial counts; 486
Obstructed intestine as a reservoir for systemic infection; 394
Obstructive jaundice promotes bacterial translocation from the gut; 79
Organ distribution of gut-derived bacteria caused by bowel manipulation or ischemia; 85
Bile acids
Changes in intragastric bile acid composition in patients receiving cimetidine postoperatively; 153
Bile ducts
Management of proximal cholangiocarcinomas by surgical resection and radiotherapy; 91
Multiple tumors of the biliary tract; 386
Biliary tract
Editorial comment (E), 410
Multiple tumors of the biliary tract; 386
Thirty years' experience with biliary tract reconstruction by hepaticoenterostomy and transhepatic T tube; 405
Bleeding
Management of severe hemorrhage in ulcerative colitis; 550
Blood transfusion
Risks, options, and informed consent for blood transfusion in elective surgery; 502
Books
Book reviews; 187, 271, 360, 445, 531, 620
Breast
Identification of a unique biological tumor marker in human breast cyst fluid and breast cancer tissue; 473
Recurrence after lumpectomy for comedo-type intraductal carcinoma of the breast; 479
Screening mammography program of British Columbia; 470
Validity of the clinical alert on breast cancer; 195
Budd-Chiari syndrome
Surgical options, hematologic evaluation, and pathologic changes in Budd-Chiari syndrome; 41
Burns
Editorial comments (E), 599
Modified retrograde intubation technique for rapid airway access; 597
Nutritional support in surgical practice: part I; 345
Securing endotracheal tubes in patients with facial burns or trauma; 339
Bypass
Distal-end esophagostomy of the excluded esophagus in the palliation of upper and mid-esophageal carcinoma; 287
Long-term outcome of reversal of small intestinal bypass operations; 118
Palliative operations for pancreatic carcinoma; 72
Cancer
Biliary diversion for pancreatic carcinoma: matching the methods and the patient; 67
Colorectal cancer in a small rural hospital; 277
Combined chemotherapy and radiotherapy for carcinomas of the anus; 518
Comparison of portal vein chemotherapy with hepatic artery chemotherapy in the treatment of liver micrometastases; 325
Distal-end esophagostomy of the excluded esophagus in the palliation of upper and mid-esophageal carcinoma; 287
Does extensive dissection of lymph nodes improve the results of surgical treatment of gastric cancer? 218
Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells; 172
Editorial comment (E), 202
Endoscopic retrograde cholangiopancreatography in the preoperative diagnosis of pancreatic neoplasms associated with cysts; 510
Fine needle aspiration cytology in the evaluation of head and neck masses; 482
Follow-up of patients operated on for colorectal carcinoma; 593
Identification of a unique biological tumor marker in human breast cyst fluid and breast cancer tissue; 473
Isolated perfusion of pancreas with mitomycin C; 569
Management of enterovesical fistulas; 514
Management of proximal cholangiocarcinomas by surgical resection and radiotherapy; 91
Nutritional support in surgical practice: part I; 345
Palliative operations for pancreatic carcinoma; 72
Preoperative assessment of malignant hepatic tumors; 137
Prognostic factors for survival after pancreaticoduodenectomy for malignant disease; 454
Recurrence after lumpectomy for comedo-type intraductal carcinoma of the breast; 479
Screening mammography program of British Columbia; 470
Significance of DNA content abnormalities in small rectal cancers; 199
The fate of the forgotten rectal pouch after Hartmann's procedure without reconstruction; 106
Usefulness of frozen-section examination in mid-rectal cancer after resection and preoperative radiation; 582
Use of frozen section analysis in the treatment of basal cell carcinoma; 561
Validity of the clinical alert on breast cancer; 195
Carotid artery
Carotid endarterectomy; 252
Catherization
Preoperative percutaneous drainage of diverticular abscesses; 99
Chemotherapy
Combined chemotherapy and radiotherapy for carcinomas of the anus; 518
Comparison of portal vein chemotherapy with hepatic artery chemotherapy in the treatment of liver micrometastases; 325
Isolated perfusion of pancreas with mitomycin C; 569
Children
Anatomic and functional abnormalities of the esophagus in infants surviving congenital diaphragmatic hernia; 204
Appendicitis in children aged 13 years and younger; 589
Management of Hirschsprung's disease in children with trisomy 21; 402
Necrotizing enterocolitis in term neonates; 507
Cholangiography
Editorial comment (E), 385
Operative cholangiography; 380
Cholecystectomy
Acute cholecystitis in the elderly; 414
Cholecystectomy provides long-term symptom relief in patients with acalculous gallbladders; 489
Duodenogastric reflux of bile acids, gastrin and parietal cells, and gastric acid secretion before and 6 months after cholecystectomy; 575
Editorial comment (E), 385, 416
Laparoscopic cholecystectomy (E), 273
Operative cholangiography; 380
Simple elective cholecystectomy: to drain or not; 241
Cholecystitis
Acute cholecystitis in the elderly; 414
Editorial comment (E), 416
Cimetidine
Changes in intragastric bile acid composition in patients receiving cimetidine postoperatively; 153
Cirrhosis
Sequential decrease in platelet energy charge after hepatic resection in cirrhotics; 246
Colic, biliary
Cholecystectomy provides long-term symptom relief in patients with acalculous gallbladders; 489
Colon
Clinical application of a new compression anastomotic device for colorectal surgery; 330
Colorectal cancer in a small rural hospital; 277
Comparison of clinical and compliance characteristics between S and W ileal reservoirs; 34

Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells; 172
Editorial comment (E), 281, 294
Follow-up of patients operated on for colorectal carcinoma; 593
Management of enterovesical fistulas; 514
Management of severe hemorrhage in ulcerative colitis; 550
Necrotizing enterocolitis in term neonates; 507
Preoperative percutaneous drainage of diverticular abscesses; 99
Reassessment of primary resection of the perforated segment for severe colonic diverticulitis; 291
The ileoanal reservoir; 178

Computed tomography
Preoperative assessment of malignant hepatic tumors; 137

Crohn's disease
A century of home parenteral nutrition for Crohn's disease; 540
Editorial comment (E), 544

Cytology
Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells; 172

Diagnosis-related groups
Looking forward—looking back (E), 448

Diagnostic peritoneal lavage
Abdominal trauma and diagnostic peritoneal lavage revisited (E), 363

Dialysis
Continuous ambulatory peritoneal dialysis associated with peritonitis in older patients; 579

Diverticulitis
Editorial comment (E), 294
Reassessment of primary resection of the perforated segment for severe colonic diverticulitis; 291

DNA
DNA technology; 610
Editorial comment (E), 202
Significance of DNA content abnormalities in small rectal cancers; 199

Down syndrome
Management of Hirschsprung's disease in children with trisomy 21; 402

Dysphagia
A new technique to define and clarify esophageal motor disorders; 144

Editorials
Abdominal trauma and diagnostic peritoneal lavage revisited; 363
A rural surgeon's perspective on general surgery; 274
Controllable lifestyle as a factor in choosing a medical career; 189
Editorial comment; 202, 210, 230, 268, 281, 294, 308, 344, 385, 410, 416, 544, 549, 599
Laparoscopic cholecystectomy; 273
Looking forward—looking back; 448
Proper timing of surgery for gallstone pancreatitis; 361
Role models in the education of surgeons; 2
Ten rules for reading clinical research reports; 533

Education
A rural surgeon's perspective on general surgery (E), 274
Controllable lifestyle as a factor in choosing a medical career (E), 189
Editorial comment (E), 268, 344
Evaluation of the accuracy of reporting residents' operative experience; 615
Influence of clerkship structure and timing on individual student performance; 265
Role models in the education of surgeons (E), 2
Structured single-observer methods of evaluation for the assessment of ward performance on the surgical clerkship; 423
Surgery interns' experience with surgical procedures as medical students; 341

Emergency medical service
Emergency department deaths; 377

Endoscopy
Endoscopic ligation of esophageal varices; 21

Enterocolitis
Management of Hirschsprung's disease in children with trisomy 21; 402
Necrotizing enterocolitis in term neonates; 507

Esophagus
Anatomic and functional abnormalities of the esophagus in infants surviving congenital diaphragmatic hernia; 204
A new technique to define and clarify esophageal motor disorders; 144
Changes in intragastric bile acid composition in patients receiving cimetidine postoperatively; 153
Distal-end esophagostomy of the excluded esophagus in the palliation of upper and mid-esophageal carcinoma; 287
Endoscopic ligation of esophageal varices; 21

Fibrinolysis
Editorial comment (E), 210
Fibrinolytic therapy for idiopathic subclavian-axillary vein thrombosis; 208

Fine needle aspiration
Fine needle aspiration cytology in the evaluation of head and neck masses; 482

Fistulas
Improving survival and limb salvage in patients with aortic graft infection; 466
Management of enterovesical fistulas; 514
Nutritional support in surgical practice: part II; 427
Treatment of enterocutaneous fistulas by high-pressure suction with a normal diet; 411

Gallbladder
Cholecystectomy provides long-term symptom relief in patients with acalculous gallbladders; 489
Duodenogastric reflux of bile acids, gastrin and parietal cells, and gastric acid secretion before and 6 months after cholecystectomy; 575
Editorial comment (E), 385
Multiple tumors of the biliary tract; 386
Operative cholangiography; 380

Gallstones
Proper timing of surgery for gallstone pancreatitis (E), 361

Gastrectomy
Management of postgastrectomy syndromes; 8

Gastrointestinal tract
Intraoperative tissue oximetry in the human gastrointestinal tract; 314

Gastroplasty
Long-term outcome of reversal of small intestinal bypass operations; 118

Glutamine
Intestinal glutamine metabolism after massive small bowel resection; 27

Grafts
Improving survival and limb salvage in patients with aortic graft infection; 466

Hands
Surgical treatment of distal ulnar artery aneurysm; 527

Hartmann's procedure
The fate of the forgotten rectal pouch after Hartmann's procedure without reconstruction; 106

Head and neck
Diagnosis and management of paragangliomas of the skull base; 389
Editorial comment (E), 308, 599
Fine needle aspiration cytology in the evaluation of head and neck masses; 482
Modified retrograde intubation technique for rapid airway access; 597
Securing endotracheal tubes in patients with facial burns or trauma; 339
The iliac crest and the radial forearm flap in vascularized oromandibular reconstruction; 301

Health maintenance organizations
Looking forward—looking back (E), 448

Hernia
Anatomic and functional abnormalities of the esophagus in infants surviving congenital diaphragmatic hernia; 204
Management of indirect inguinal hernias by laparoscopic closure of the neck of the sac; 370

Hirschsprung's disease
Management of Hirschsprung's disease in children with trisomy 21; 402

Hormones
Effect of catabolic hormone infusion on protein turnover and amino acid uptake in skeletal muscle; 295

Iatrogenesis
Iatrogenic splenic injury; 585

Ileum
The ileoanal reservoir; 178

Imaging techniques
Endoscopic retrograde cholangiopancreatography in the preoperative diagnosis of pancreatic neoplasms associated with cysts; 510
Limited value of technetium 99m-labeled red cell scintigraphy in localization of lower gastrointestinal bleeding; 504
Rapid diagnosis of thoracic aortic transection using intravenous digital subtraction angiography; 500

Intestines
Angiography in poor-risk patients with massive nonvariceal upper gastrointestinal bleeding; 282
Characterization of immune responses in different lymphoid compartments during small intestinal allograft rejection; 161
Intestinal glutamine metabolism after massive small bowel resection; 27
Limited value of technetium 99m-labeled red cell scintigraphy in localization of lower gastrointestinal bleeding; 504
Long-term outcome of reversal of small

intestinal bypass operations; 118
Necrotizing enterocolitis in term neonates; 507
Obstructed intestine as a reservoir for systemic infection; 394
Obstructive jaundice promotes bacterial translocation from the gut; 79
Organ distribution of gut-derived bacteria caused by bowel manipulation or ischemia; 85
Role of highly selective vagotomy and duodenoplasty in the treatment of postbulbar duodenal obstruction; 15
Surgical management of complications of endoscopic sphincterotomy with precut papillotomy; 132
Tube enterostomy after small bowel resection; 253

Ischemia
Organ distribution of gut-derived bacteria caused by bowel manipulation or ischemia; 85

Jaundice
Obstructive jaundice promotes bacterial translocation from the gut; 79

Laparoscopy
Laparoscopic cholecystectomy (E), 273
Management of indirect inguinal hernias by laparoscopic closure of the neck of the sac; 370

Letters
Letters to the editor; 186, 269, 359, 444, 531, 619

Lifestyles
A rural surgeon's perspective on general surgery (E), 274
Controllable lifestyle as a factor in choosing a medical career (E), 189

Liver
Comparison of portal vein chemotherapy with hepatic artery chemotherapy in the treatment of liver micrometastases; 325
Liver transplantation for severe *Amanita phalloides* mushroom poisoning; 493
Mobilization of the right lobe of the liver for right adrenalectomy; 336
Nutritional support in surgical practice: part II; 427
Preoperative assessment of malignant hepatic tumors; 137
Sequential decrease in platelet energy charge after hepatic resection in cirrhotics; 246
Surgical options, hematologic evaluation, and pathologic changes in Budd-Chiari syndrome; 41

Lymph nodes
Does extensive dissection of lymph nodes improve the results of surgical treatment of gastric cancer? 218

Magnetic resonance imaging
Preoperative assessment of malignant hepatic tumors; 137

Manometry
A new technique to define and clarify esophageal motor disorders; 144
Manometric diagnosis of anal sphincter injuries; 112

Medicare
Looking forward—looking back (E), 448

Muscle
Effect of catabolic hormone infusion on protein turnover and amino acid uptake in skeletal muscle; 295
Scalene muscle abnormalities in traumatic thoracic outlet syndrome; 231

Nutrition
A century of home parenteral nutrition for Crohn's disease; 540
Editorial comment (E), 544
Nutritional support in surgical practice: part I; 345
Nutritional support in surgical practice: part II; 427
Treatment of enterocutaneous fistulas by high-pressure suction with a normal diet; 411
Triglyceride absorption in transperitoneal alimentation; 237

Obesity
Long-term outcome of reversal of small intestinal bypass operations; 118

Oximetry
Intraoperative tissue oximetry in the human gastrointestinal tract; 314

Pancreas
Anatomic distribution of pancreatic endocrine tumors; 258
Biliary diversion for pancreatic carcinoma: matching the methods and the patient; 67
Endoscopic retrograde cholangiopancreatography in the preoperative diagnosis of pancreatic neoplasms associated with cysts; 510
Evaluation and treatment of the dominant dorsal duct syndrome (pancreas divisum redefined); 59
Isolated perfusion of pancreas with mitomycin C; 569
Long-term results of pancreatic resection and segmental pancreatic autotransplantation for chronic pancreatitis; 51
Mattress suture for pancreatic closure and anastomosis; 250
Nutritional support in surgical practice: part II; 427
Palliative operations for pancreatic carcinoma; 72
Prognostic factors for survival after pancreaticoduodenectomy for malignant disease; 454
Proper timing of surgery for gallstone pancreatitis (E), 361
Summary of pancreas club meeting; 191

Peritoneum
Continuous ambulatory peritoneal dialysis associated with peritonitis in older patients; 579

Platelets
Sequential decrease in platelet energy charge after hepatic resection in cirrhotics; 246

Poisoning, mushroom
Liver transplantation for severe *Amanita phalloides* mushroom poisoning; 493

Radiotherapy
Combined chemotherapy and radiotherapy for carcinomas of the anus; 518
Management of proximal cholangiocarcinomas by surgical resection and radiotherapy; 91
Usefulness of frozen-section examination in mid-rectal cancer after resection and preoperative radiation; 582

Rectum
Clinical application of a new compression anastomotic device for colorectal surgery; 330
Colorectal cancer in a small rural hospital; 277
Comparison of clinical and compliance characteristics between S and W ileal reservoirs; 34
Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells; 172
Editorial comment (E), 202, 281
Factors influencing postoperative urinary retention in patients undergoing surgery for benign anorectal disease; 374
Follow-up of patients operated on for colorectal carcinoma; 593
Significance of DNA content abnormalities in small rectal cancers; 199
The fate of the forgotten rectal pouch after Hartmann's procedure without reconstruction; 106
Usefulness of frozen-section examination in mid-rectal cancer after resection and preoperative radiation; 582

Research
Ten rules for reading clinical research reports (E), 533

Resection
Management of proximal cholangiocarcinomas by surgical resection and radiotherapy; 91

Reviews
DNA technology; 610
Risks, options, and informed consent for blood transfusion in elective surgery; 602

Shunts
Percutaneous Denver peritoneovenous shunt insertion; 600

Skin
Use of frozen section analysis in the treatment of basal cell carcinoma; 561

Sphincterotomy
Surgical management of complications of endoscopic sphincterotomy with precut papillotomy; 132

Spleen
Iatrogenic splenic injury; 585

Statistics
Ten rules for reading clinical research reports (E), 533

Stomach
Angiography in poor-risk patients with massive nonvariceal upper gastrointestinal bleeding; 282
Changes in intragastric bile acid composition in patients receiving cimetidine postoperatively; 153
Does extensive dissection of lymph nodes improve the results of surgical treatment of gastric cancer? 218
Editorial comment (E), 549
Limited value of technetium 99m-labeled red cell scintigraphy in localization of lower gastrointestinal bleeding; 504
Management of postgastrectomy syndromes; 8
Primary Roux-Y gastrojejunostomy versus gastroduodenostomy after antrectomy and selective vagotomy; 546
Surgical implications of the posterior gastric artery; 420

Sutures
Mattress suture for pancreatic closure and anastomosis; 250

Techniques
Carotid endarterectomy; 252

Clinical application of a new compression anastomotic device for colorectal surgery; 330
Editorial comment (E), 599
End-to-end anastomosis by enclosure between a prosthesis and a vessel with a significant difference in diameter; 417
Mattress suture for pancreatic closure and anastomosis; 250
Mobilization of the right lobe of the liver for right adrenalectomy; 336
Modified retrograde intubation technique for rapid airway access; 597
Percutaneous Denver peritoneovenous shunt insertion; 600
Surgical implications of the posterior gastric artery; 420
Tube enterostomy after small bowel resection; 256

Thoracic outlet syndrome
Scalene muscle abnormalities in traumatic thoracic outlet syndrome; 231

Thrombosis
Editorial comment (E), 210
Fibrinolytic therapy for idiopathic subclavian-axillary vein thrombosis; 208

Trachea
Securing endotracheal tubes in patients with facial burns or trauma; 339

Transfusion
Elective surgery without transfusion: influence of preoperative hemoglobin level and blood loss on mortality; 320
Eliminating homologous blood transfusions during abdominal aortic aneurysm repair; 522

Transplantation
Characterization of immune responses in different lymphoid compartments during small intestinal allograft rejection; 161
Liver transplantation for severe *Amanita phalloides* mushroom poisoning; 493

Trauma
Abdominal trauma and diagnostic peritoneal lavage revisited (E), 363
Emergency department deaths; 377
Interinstitutional transfers to a trauma center; 462
Nutritional support in surgical practice: part I; 345
Rapid diagnosis of thoracic aortic transection using intravenous digital subtraction angiography; 500
Securing endotracheal tubes in patients with facial burns or trauma; 339
Time-management study of trauma resuscitation; 457
Venous thromboembolism in patients with major trauma; 365

Triglycerides
Triglyceride absorption in transperitoneal alimentation; 237

Trisomy 21
Management of Hirschsprung's disease in children with trisomy 21; 402

Tuberculosis
Abdominal mycobacterial infections in immunocompromised patients; 125

Tumors
Anatomic distribution of pancreatic endocrine tumors; 258
Diagnosis and management of paragangliomas of the skull base; 389
Multiple tumors of the biliary tract; 386
Problems in diagnosis and management of desmoid tumors; 450

Ulcer
APACHE II in emergency operations for perforated ulcers; 309
Comparison of clinical and compliance characteristics between S and W ileal reservoirs; 34
Editorial comment (E), 549
Primary Roux-Y gastrojejunostomy versus gastroduodenostomy after antrectomy and selective vagotomy; 546
Role of highly selective vagotomy and duodenoplasty in the treatment of postbulbar duodenal obstruction; 15

Vagotomy
Role of highly selective vagotomy and duodenoplasty in the treatment of postbulbar duodenal obstruction; 15

Veins
Editorial comment (E), 210
End-to-end anastomosis by enclosure between a prosthesis and a vessel with a significant difference in diameter; 417
Fibrinolytic therapy for idiopathic subclavian-axillary vein thrombosis; 208
Three-phase study of phlebitis in patients receiving peripheral intravenous hyperalimentation; 222
Venous thromboembolism in patients with major trauma; 365

Contents

JANUARY 1990/VOLUME 159/NUMBER 1

Papers of the Society for Surgery of the Alimentary Tract

PRESIDENTIAL ADDRESS

2 **Role Models in the Education of Surgeons**
Robert E. Hermann

FOUNDER'S LECTURE

8 **Management of Postgastrectomy Syndromes**
John L. Sawyers

15 **Role of Highly Selective Vagotomy and Duodenoplasty in the Treatment of Postbulbar Duodenal Obstruction**
Talmadge A. Bowden, Jr., Vendie H. Hooks III, and David A. Rogers

21 **Endoscopic Ligation of Esophageal Varices**
Greg Van Stiegmann, John S. Goff, John H. Sun, Daniel Hruza, and R. Matthew Reveille

27 **Intestinal Glutamine Metabolism after Massive Small Bowel Resection**
V. Suzanne Klimberg, Wiley W. Souba, Rabih M. Salloum, Daniel T. Holley, R. Dean Hautamaki, David J. Dolson, and Edward M. Copeland III

34 **Comparison of Clinical and Compliance Characteristics Between S and W Ileal Reservoirs**
Bruce A. Harms, Andrew C. Pahl, and James R. Starling

41 **Surgical Options, Hematologic Evaluation, and Pathologic Changes in Budd-Chiari Syndrome**
J. Michael Henderson, W. Dean Warren, William J. Millikan, Jr., John R. Galloway, Seiji Kawasaki, Robert L. Stahl, and Gary Hertzler

51 **Long-Term Results of Pancreatic Resection and Segmental Pancreatic Autotransplantation for Chronic Pancreatitis**
Ricardo L. Rossi, J. Stuart Soeldner, John W. Braasch, Frederick W. Heiss, John A. Shea, Elton Watkins, Jr., and Mark L. Silverman

59 **Evaluation and Treatment of the Dominant Dorsal Duct Syndrome (Pancreas Divisum Redefined)**
Andrew L. Warshaw, Joseph F. Simeone, Robert H. Schapiro, and Brenda Flavin-Warshaw

67 **Biliary Diversion for Pancreatic Carcinoma: Matching the Methods and the Patient**
Herbert J. Proctor and Matthew Mauro

72 **Palliative Operations for Pancreatic Carcinoma**
John R. Potts III, Thomas A. Broughan, and Robert E. Hermann

79 **Obstructive Jaundice Promotes Bacterial Translocation from the Gut**
Edwin A. Deitch, Kevin Sittig, Ma Li, Rodney Berg, and Robert D. Specian

85 **Organ Distribution of Gut-Derived Bacteria Caused by Bowel Manipulation or Ischemia**
Jay A. Redan, Benjamin F. Rush, Jr., Thomas W. Lysz, Sharon Smith, and George W. Machiedo

91 **Management of Proximal Cholangiocarcinomas by Surgical Resection and Radiotherapy**
John L. Cameron, Henry A. Pitt, Michael J. Zinner, Steven L. Kaufman, and JoAnn Coleman

99 **Preoperative Percutaneous Drainage of Diverticular Abscesses**
Bruce E. Stabile, Elizabeth Puccio, Eric vanSonnenberg, and Courtney C. Neff

106 **The Fate of the Forgotten Rectal Pouch After Hartmann's Procedure Without Reconstruction**
Peter A. Haas and Thomas A. Fox, Jr.

112 **Manometric Diagnosis of Anal Sphincter Injuries**
Richard E. Perry, Garnet J. Blatchford, Mark A. Christensen, Alan G. Thorson, and Stephen E.A. Attwood

118 **Long-Term Outcome of Reversal of Small Intestinal Bypass Operations**
Philip Dean, Shoba Joshi, and Donald L. Kaminski

125 **Abdominal Mycobacterial Infections in Immunocompromised Patients**
Todd K. Rosengart and Gene F. Coppa

132 **Surgical Management of Complications of Endoscopic Sphincterotomy with Precut Papillotomy**
Frank V.McL. Booth, Ralph J. Doerr, Reza S. Khalafi, Frederick A. Luchette, and Lewis M. Flint, Jr.

137 **Preoperative Assessment of Malignant Hepatic Tumors**
James V. Sitzmann, JoAnn Coleman, Henry A. Pitt, Elias Zerhouni, Elliott Fishman, Stephen L. Kaufman, Stanley Order, Louise B. Grochow, and John L. Cameron

144 **A New Technique to Define and Clarify Esophageal Motor Disorders**
Ernst P. Eypasch, Hubert J. Stein, Tom R. DeMeester, Karl-Erik Johansson, Antony P. Barlow, and Gerald T. Schneider

153 **Changes in Intragastric Bile Acid Composition in Patients Receiving Cimetidine Postoperatively**
Gary C. Vitale, Yong Siow, William G. Cheadle, Peter R. Baker, and Alfred Cuschierei

161 **Characterization of Immune Responses in Different Lymphoid Compartments During Small Intestinal Allograft Rejection**
Peter C.W. Kim, Gary A. Levy, Monica Craig, James Cullen, and Zane Cohen

167 **Factors Influencing the Treatment of Intra-abdominal Abscesses**
Mark A. Malangoni, Charles R. Shumate, Hollis A. Thomas, and J. David Richardson

172 **Early Detection of Colorectal Cancer by Quantitative Fluorescence Image Analysis of Exfoliated Cells**
Patrick F. McGowan, Robert E. Hurst, Rebecca A. Bass, George P. Hemstreet, Mary M. Lane, Edward Zompa, Cynthia K. Murray, and Russell G. Postier

178 **The Ileoanal Reservoir**
Steven D. Wexner, W. Douglas Wong, David A. Rothenberger, and Stanley M. Goldberg

186 **Letters to the Editor**

187 **Book Reviews**

188 ***The British Journal of Surgery* Table of Contents (vol. 77, no. 1, January 1990)**

A22 **Information for Authors**

A23 **Society Meetings**

A23 **Announcements**

Contents

FEBRUARY 1990/VOLUME 159/NUMBER 2

EDITORIAL OPINION

189 **Controllable Lifestyle as a Factor in Choosing a Medical Career**
Ward O. Griffen, Jr. and Richard W. Schwartz

SCIENTIFIC PAPERS

191 **Summary of Pancreas Club Meeting: May 15, 1989, Washington, D.C.**

195 **Validity of the Clinical Alert on Breast Cancer**
John S. Spratt and Richard A. Greenberg

199 **Significance of DNA Content Abnormalities in Small Rectal Cancers**
Tomas M. Heimann, Felice Miller, Giorgio Martinelli, Jolinda Mester, Robert J. Kurtz, Arnold Szporn, and Thomas Fasy

202 **Editorial Comment**
Mukund S. Didolkar

204 **Anatomic and Functional Abnormalities of the Esophagus in Infants Surviving Congenital Diaphragmatic Hernia**
Charles J.H. Stolar, Joseph P. Levy, Peter W. Dillon, Cynthia Reyes, Peter Belamarich, and Walter E. Berdon

208 **Fibrinolytic Therapy for Idiopathic Subclavian-Axillary Vein Thrombosis**
Jonathan J. Wilson, Catherine A. Zhan, and Harold Newman

210 **Editorial Comment**
Peter B. Samuels

212 ***Clostridium difficile* Diarrhea and Colonization after Treatment with Abdominal Infection Regimens Containing Clindamycin or Metronidazole**
Dale N. Gerding, Mary M. Olson, Stuart Johnson, Lance R. Peterson, and James T. Lee, Jr.

218 **Does Extensive Dissection of Lymph Nodes Improve the Results of Surgical Treatment of Gastric Cancer?**
Nobuaki Kaibara, Kenichi Sumi, Masao Yonekawa, Michio Ohta, Masato Makino, Osamu Kimura, Hideaki Nishidoi, and Shigemasa Koga

222 **Three-Phase Study of Phlebitis in Patients Receiving Peripheral Intravenous Hyperalimentation**
Eric B. Rypins, Beverly H. Johnson, Sr. Barbara Reder, I. James Sarfeh, and Kathi Shimoda

226 **Combined Topical and Systemic Antibiotic Prophylaxis in Acute Appendicitis**
Juan L. Seco, Eva Ojeda, Carmen Reguilon, Jose M. Rey, Ana Irurzun, Salvador R. Serrano, and Jose L. Santamaria

230 **Editorial Comment**
Thomas Bergamini

231 **Scalene Muscle Abnormalities in Traumatic Thoracic Outlet Syndrome**
Richard J. Sanders, Catherine G. Ratzin Jackson, Natalio Banchero, and William H. Pearce

237 **Triglyceride Absorption in Transperitoneal Alimentation**
E. Stanton Adkins, F. Tansu Salman, and Eric W. Fonkalsrud

241 **Simple Elective Cholecystectomy: To Drain or Not**
Ronald T. Lewis, R. Graydon Goodall, Breen Marien, Myung Park, Walter Lloyd-Smith, and Frederick M. Wiegand

246 **Sequential Decrease in Platelet Energy Charge after Hepatic Resection in Cirrhotics**
Masazumi Zaima, Masashi Noguchi, Yasuo Wada, Keiichiro Mori, and Kazue Ozawa

HOW I DO IT

250 **Mattress Suture for Pancreatic Closure and Anastomosis**
Maurice Mercadier

252 **Carotid Endarterectomy**
Max R. Gaspar

256 **Tube Enterostomy after Small Bowel Resection**
William Rappaport and Anthony Guzauskas

REVIEW

258 **Anatomic Distribution of Pancreatic Endocrine Tumors**
Thomas J. Howard, Bruce E. Stabile, Michael J. Zinner, Steven Chang, Belur S. Bhagavan, and Edward Passaro, Jr.

SURGICAL EDUCATION

265 **Influence of Clerkship Structure and Timing on Individual Student Performance**
Frank A. Baciewicz, Jr., Linda Arent, Michael Weaver, Richard Yeastings, and Neil R. Thomford

268 **Editorial Comment**
Norman Snow

269 **Letters to the Editor**

271 **Book Reviews**

A14 **Information for Authors**

A15 ***The British Journal of Surgery* Table of Contents (vol. 77, no. 2, February 1990)**

A16 **Society Meetings**

A16 **Announcements**

Contents

MARCH 1990/VOLUME 159/NUMBER 3

EDITORIAL OPINION

273 **Laparoscopic Cholecystectomy**
Alfred Cuschieri, George Berci, Charles K. McSherry

274 **A Rural Surgeon's Perspective on General Surgery**
Eugene H. Shively

SCIENTIFIC PAPERS

277 **Colorectal Cancer in a Small Rural Hospital**
Joseph Callaghan

281 **Editorial Comment**
Richard J. Field, Jr.

282 **Angiography in Poor-Risk Patients with Massive Nonvariceal Upper Gastrointestinal Bleeding**
Daniel T. Dempsey, Dana R. Burke, Rebecca S. Reilly, Gordon K. McLean, and Ernest F. Rosato

287 **Distal-End Esophagostomy of the Excluded Esophagus in the Palliation of Upper and Mid-Esophageal Carcinoma**
Gerhart Ramirez Schon, Jose Cebollero Marcucci, and Carlos Marquez Toro

291 **Reassessment of Primary Resection of the Perforated Segment for Severe Colonic Diverticulitis**
James B. Peoples, Deborah R. Vilk, John P. Maguire, and Dan W. Elliott

294 **Editorial Comment**
George L. Jordan, Jr.

295 **Effect of Catabolic Hormone Infusion on Protein Turnover and Amino Acid Uptake in Skeletal Muscle**
Brad W. Warner, Per-Olof Hasselgren, Robert P. Hummel III, J. Howard James, Peter Pedersen, and Josef E. Fischer

301 **The Iliac Crest and the Radial Forearm Flap in Vascularized Oromandibular Reconstruction**
J. Brian Boyd, Irving Rosen, Lorne Rotstein, Jeremy Freeman, Pat Gullane, Ralph Manktelow, and Ron Zuker

308 **Editorial Comment**
Joseph C. Banis

309 **APACHE II in Emergency Operations for Perforated Ulcers**
Moshe Schein, Gary Gecelter, Zeev Freinkel, and Herman Gerding

314 **Intraoperative Tissue Oximetry in the Human Gastrointestinal Tract**
William G. Sheridan, Richard H. Lowndes, and Howard L. Young

320 **Elective Surgery without Transfusion: Influence of Preoperative Hemoglobin Level and Blood Loss on Mortality**
Richard K. Spence, Jeffrey A. Carson, Roy Poses, Sue McCoy, Mark Pello, James Alexander, Joseph Popovich, Edward Norcross, and Rudolph C. Camishion

325 **Comparison of Portal Vein Chemotherapy with Hepatic Artery Chemotherapy in the Treatment of Liver Micrometastases**
Stephen G. Archer and Bruce N. Gray

HOW I DO IT

330 **Clinical Application of a New Compression Anastomotic Device for Colorectal Surgery**
Carlo Rebuffat, Riccardo Rosati, Marco Montorsi, Uberto Fumagalli, Marco Maciocco, Michelangelo Poccobelli, Giancarlo Roviaro, Frederico Varoli, and Giuseppe Pezzuoli

336 **Mobilization of the Right Lobe of the Liver for Right Adrenalectomy**
Richard A. Prinz

339 **Securing Endotracheal Tubes in Patients with Facial Burns or Trauma**
C. Gillon Ward, Karon Gorham, Jeffrey Hammond, and Robin Varas

SURGICAL EDUCATION

341 **Surgery Interns' Experience with Surgical Procedures as Medical Students**
Don K. Nakayama and Andrei Steiber

344 **Editorial Comment**
Richard M. Bell

REVIEW

345 **Nutritional Support in Surgical Practice: Part I**
Michael M. Meguid, Antonio C. Campos, and William G. Hammond

359 **Letter to the Editor**

360 **Book Reviews**

A2 **Announcements**

A16 **Society Meetings**

A17 **Information for Authors**

A21 ***The British Journal of Surgery* Table of Contents (vol. 77, no. 3, March 1990)**

Contents

APRIL 1990/VOLUME 159/NUMBER 4

EDITORIAL OPINION

361 **Proper Timing of Surgery for Gallstone Pancreatitis**
Thomas R. Kelly and Dan W. Elliott

363 **Abdominal Trauma and Diagnostic Peritoneal Lavage Revisited**
H. David Root

SCIENTIFIC PAPERS

365 **Venous Thromboembolism in Patients with Major Trauma**
Steven R. Shackford, James W. Davis, Peggy Hollingsworth-Fridlund, Nancy S. Brewer, David B. Hoyt, and Robert C. Mackersie

370 **Management of Indirect Inguinal Hernias by Laparoscopic Closure of the Neck of the Sac**
Ralph Ger, Keith Monroe, Roger Duwivier, and Abdallah Mishrick

374 **Factors Influencing Postoperative Urinary Retention in Patients Undergoing Surgery for Benign Anorectal Disease**
James G. Petros and Timothy M. Bradley

377 **Emergency Department Deaths**
Gordon L. Webb, Norman E. McSwain, Jr., Watts R. Webb, and Charles Rodriguez

380 **Operative Cholangiography**
Eugene H. Shively, T. Jeffery Wieman, Anna Lee Adams, Robert B. Romines, and R. Neal Garrison

385 **Editorial Comment**
T. V. Taylor

386 **Multiple Tumors of the Biliary Tract**
Philippe Gertsch, Philip Thomas, Hans Baer, Jan Lerut, Arthur Zimmermann, and Leslie H. Blumgart

389 **Diagnosis and Management of Paragangliomas of the Skull Base**
C. Gary Jackson, Perry F. Harris, Michael E. Glasscock III, Michael Fritsch, Eva Dimitrov, Glenn D. Johnson, and Dennis S. Poe

394 **Obstructed Intestine as a Reservoir for Systemic Infection**
Edwin A. Deitch, William M. Bridges, Jing Wen Ma, Li Ma, Rodney D. Berg, and Robert D. Specian

402 **Management of Hirschsprung's Disease in Children with Trisomy 21**
Donna A. Caniano, Daniel H. Teitelbaum, and Stephen J. Qualman

405 **Thirty Years' Experience with Biliary Tract Reconstruction by Hepaticoenterostomy and Transhepatic T Tube**
Rafael Muñoz and Sergio Cardenas

410 **Editorial Comment**
John L. Cameron

411 **Treatment of Enterocutaneous Fistulas by High-Pressure Suction with a Normal Diet**
Aldo da Cunha Medeiros and Carlos Ernani Rosado Soares

414 **Acute Cholecystitis in the Elderly**
Gunnar Edlund and Mikael Ljungdahl

416 **Editorial Comment**
Dan W. Elliott

HOW I DO IT

417 **End-to-End Anastomosis by Enclosure between a Prosthesis and a Vessel with a Significant Difference in Diameter**
Marco P. Merlini

420 **Surgical Implications of the Posterior Gastric Artery**
Wansik Yu and Ilwoo Whang

ASSOCIATION FOR SURGICAL EDUCATION

423 **Structured Single-Observer Methods of Evaluation for the Assessment of Ward Performance on the Surgical Clerkship**
Gary Dunnington, Liz Reisner, Don Witzke, and John Fulginiti

REVIEW

427 **Nutritional Support in Surgical Practice: Part II**
Michael M. Meguid, Antonio C. Campos, and William G. Hammond

444 **Letters to the Editor**

445 **Book Reviews**

446 ***The British Journal of Surgery* Table of Contents (vol. 77, no. 4, April 1990)**

A14 **Classified Ads**

A15 **Classified Ads**

A16 **Information for Authors**

A18 **Announcements**

A18 **Society Meetings**

Contents

MAY 1990/VOLUME 159/NUMBER 5

Papers of the North Pacific Surgical Association

PRESIDENTIAL ADDRESS

448 **Looking Forward—Looking Back**
Robert T. Hosie

SCIENTIFIC PAPERS

450 **Problems in Diagnosis and Management of Desmoid Tumors**
Richard Lopez, Nathan Kemalyan, H. Stephens Moseley, Daniel Dennis, and R. Mark Vetto

454 **Prognostic Factors for Survival after Pancreaticoduodenectomy for Malignant Disease**
Thomas Winek, Daniel Hamre, Everett Mozell, and R. Mark Vetto

457 **Time-Management Study of Trauma Resuscitation**
Daniel Lowe, Richard Pope, and Jerris Hedges

462 **Interinstitutional Transfers to a Trauma Center**
Judith A. Vestrup

466 **Improving Survival and Limb Salvage in Patients with Aortic Graft Infection**
Richard A. Yeager, Gregory L. Moneta, Lloyd M. Taylor, Jr., E. John Harris, Jr., Donald B. McConnell, and John M. Porter

470 **Screening Mammography Program of British Columbia**
M. Graham Clay

473 **Identification of a Unique Biological Tumor Marker in Human Breast Cyst Fluid and Breast Cancer Tissue**
David Tapper, Corinne Gajdusek, Roger Moe, and Janice Ness

479 **Recurrence after Lumpectomy for Comedo-Type Intraductal Carcinoma of the Breast**
Robert M. Baird, Ann Worth, and Gregory Hislop

482 **Fine Needle Aspiration Cytology in the Evaluation of Head and Neck Masses**
Richard Schwarz, Norman H. Chan, and John K. MacFarlane

486 **Effect of Chlorhexidine Scrub on Postoperative Bacterial Counts**
James Dahl, Bruce Wheeler, and Dipankar Mukherjee

489 **Cholecystectomy Provides Long-Term Symptom Relief in Patients with Acalculous Gallbladders**
Terry M. Gilliland and L. William Traverso

493 **Liver Transplantation for Severe *Amanita phalloides* Mushroom Poisoning**
C. Wright Pinson, Mohamud R. Daya, Kent G. Benner, Robert L. Norton, Karen E. Deveney, Nancy L. Ascher, John P. Roberts, John R. Lake, Arlet G. Kurkchubasche, John W. Ragsdale, J. Preston Alexander, and Emmet B. Keeffe

500 **Rapid Diagnosis of Thoracic Aortic Transection Using Intravenous Digital Subtraction Angiography**
A. Craig Eddy, Dale R. Nance, Martin A. Goldman, Douglas M. Caldwell, Michael Copass, Edward D. Verrier, and C. James Carrico

504 **Limited Value of Technetium 99m-Labeled Red Cell Scintigraphy in Localization of Lower Gastrointestinal Bleeding**
James M. Hunter and Michael E. Pezim

507 **Necrotizing Enterocolitis in Term Neonates**
David A. Andrews, Robert S. Sawin, Daniel J. Ledbetter, Robert T. Schaller, and Edwin I. Hatch

510 **Endoscopic Retrograde Cholangiopancreatography in the Preoperative Diagnosis of Pancreatic Neoplasms Associated with Cysts**
C. Wright Pinson, J. Lawrence Munson, and Clifford W. Deveney

514 **Management of Enterovesical Fistulas**
R. Lawrence Moss and John A. Ryan, Jr.

518 **Combined Chemotherapy and Radiotherapy for Carcinomas of the Anus**
Ben H. Knecht

522 **Eliminating Homologous Blood Transfusions during Abdominal Aortic Aneurysm Repair**
Rick DeWitt Pittman and Toshio Inahara

525 **Salvage after Postoperative Thrombosis of the Carotid Artery**
James Dooner and Peter Kuechler

527 **Surgical Treatment of Distal Ulnar Artery Aneurysm**
E. John Harris Jr., Lloyd M. Taylor, Jr., James M. Edwards, Joseph L. Mills, and John M. Porter

531 **Letters to the Editor**

531 **Book Reviews**

A11 **Announcements**

A11 **Society Meetings**

A19 **Information for Authors**

A23 ***The British Journal of Surgery* Table of Contents (vol. 77, no. 5, May 1990)**

A25 **Classified Ads**

Contents

JUNE 1990/VOLUME 159/NUMBER 6

EDITORIAL OPINION

533 **Ten Rules for Reading Clinical Research Reports**
John M. Yancey

SCIENTIFIC PAPERS

540 **A Century of Home Parenteral Nutrition for Crohn's Disease**
Susan Galandiuk, Megan O'Neill, Peter McDonald, Victor W. Fazio, and Ezra Steiger

544 **Editorial Comment**
Josef E. Fischer

546 **Primary Roux-Y Gastrojejunostomy versus Gastroduodenostomy after Antrectomy and Selective Vagotomy**
Ulf H. Haglund, Roland L. Jansson, Jacob G.E. Lindhagen, Lars R. Lundell, Erik G. Svartholm, and Lars C. Olbe

549 **Editorial Comment**
J. Lynwood Herrington, Jr.

550 **Management of Severe Hemorrhage in Ulcerative Colitis**
John H. Robert, David B. Sachar, Arthur H. Aufses, Jr., and Adrian J. Greenstein

556 **Influence of Coumarin Treatment on Patency and Limb Salvage after Peripheral Arterial Reconstructive Surgery**
Berndt Arfvidsson, Fredrik Lundgren, Christer Drott, Tore Scherstén, and Kent Lundholm

561 **Use of Frozen Section Analysis in the Treatment of Basal Cell Carcinoma**
Peter A. Cataldo, Philip B. Stoddard, and William P. Reed

564 **Periappendicitis Is a Significant Clinical Finding**
Aaron S. Fink, Christopher A. Kosakowski, Jonathan R. Hiatt, and Alistair J. Cochran

569 **Isolated Perfusion of Pancreas with Mitomycin C**
Mark A. Arredondo, Bina Chaudhuri, Rita Kar, Keith A. Crist, Neil R. Thomford, and Prabir K. Chaudhuri

575 **Duodenogastric Reflux of Bile Acids, Gastrin and Parietal Cells, and Gastric Acid Secretion before and 6 Months after Cholecystectomy**
Dionigi Lorusso, Giovanni Misciagna, Vito Mangini, Caterina Messa, Aldo Cavallini, Maria L. Caruso, Piero Giorgio, and Vito Guerra

579 **Continuous Ambulatory Peritoneal Dialysis Associated with Peritonitis in Older Patients**
John Valente and William Rappaport

582 **Usefulness of Frozen-Section Examination in Resected Mid-Rectal Cancer after Preoperative Radiation**
Pedro Luna-Perez, Hector Barrientos, Serafín Delgado, and Alfonso Morales

585 **Iatrogenic Splenic Injury**
William W. Coon

589 **Appendicitis in Children Aged 13 Years and Younger**
Reda Gamal and Thomas C. Moore

593 **Follow-up of Patients Operated on for Colorectal Carcinoma**
Jari Ovaska, Heikki Järvinen, Harry Kujari, Ilkka Perttilä, and Jukka-Pekka Mecklin

HOW I DO IT

597 **Modified Retrograde Intubation Technique for Rapid Airway Access**
Michael H. Hines and J. Wayne Meredith

599 **Editorial Comment**
Eleanor Asher

599 **Editorial Comment**
Benjamin M. Rigor

600 **Percutaneous Denver Peritoneovenous Shunt Insertion**
Donald W. Weaver, Robert G. Wiencek, and David L. Bouwman

REVIEWS

602 **Risks, Options, and Informed Consent for Blood Transfusion in Elective Surgery**
Lawrence T. Goodnough and Jerry M. Shuck

610 **DNA Technology**
Rena S. Wong and Edward Passaro, Jr.

ASSOCIATION FOR SURGICAL EDUCATION

615 **Evaluation of the Accuracy of Reporting Residents' Operative Experience**
Nicholas P. W. Coe, Jane L. Garb, Kimberly J. Lincoln, and Paul Friedmann

619 **Letters to the Editor**

620 **Book Reviews**

621 ***The British Journal of Surgery* Table of Contents (vol. 77, no. 6, June 1990)**

622 **Author Index**

623 **Subject Index**

628 **Editorial Advisory Board**

629 **Contents Index**

A15 **Information for Authors**

A17 **Classified Advertising**

A18 **Announcements**

A18 **Society Meetings**